Isaac S. Narrett

https://isaacnarrett.github.io — narrett@mit.edu — MIT EAPS Ph.D. Candidate

Education

Massachusetts Institute of Technology (MIT), Cambridge, MA (2021-)

Ph.D., Planetary Science

University of Michigan, Ann Arbor, MI (2017-2021)

B.S.E., Physics, summa cum laude

Minor, Space Science Engineering

Employment

Massachusetts Institute of Technology (MIT), Cambridge, MA

Graduate Student Researcher (2021–)

Battelle Memorial Institute, Columbus, OH

Engineering Modeler Intern (Summer 2020)

University of Michigan, Ann Arbor, MI

Moldwin Magnetics Lab Research Assistant (2017-2021)

Teaching and Mentorship

Co-advisor for Master's student, MIT AeroAstro (Fall 2025)

Undergraduate Research Mentor, MIT UROP (Summer, Fall 2025)

Mentor, Haverford College Student (Summer 2025)

Graduate Teaching Assistant, Hands-on Astronomy (Spring 2024 and Spring 2025)

Polygence Paid Mentor, King's College School, Wimbledon, UK (Summer 2025)

Mentor, Cambridge High School Student (Summer 2024)

Professional Experience

Executive secretary and external reviewer for NASA program review panel (Spring 2025)

AGU Planetary Magnetism session convener (Winter 2025)

Co-Reviewer for Philosophical Transactions of the Royal Society A (Winter 2024)

Lunar Planetary Science Conference Mercury from the Inside Out moderator (Spring 2025)

Honors, Grants, and Awards

Co-I on James Webb Space Telescope (JWST) Cycle 4 DD Proposal (Selected 2025)

Elected to Sigma Xi (2025)

NASA FINESST Fellow Award (2023-2025)

MIT - James L. Elliot Fellowship (2023)

MIT - Presidential Fellowship (2021)

Michigan - Al Levinson Memorial Scholarship (2020-2021)

Michigan - Guezner Engineering Merit Scholarship (2019-2020)

Service and Outreach

Proposal team, MIT QoL Selected Grant - K-12 Outreach Kit (Spring 2025)

Visit, Amigos School and Manning Elementary School (Spring 2024, 2025)

Organizer, MIT EAPS Planetary Lunch Seminar (2023-)

Organizer, Cambridge Science Carnival (2022-2025)

Journal Articles

Published:

- Narrett, I. S., Oran, R., Chen, Y., Miljkovic, K., Toth, G., Mansbach, E. N., Weiss, B. P. (2025). Impact plasma amplification of the ancient lunar dynamo. Science Advances.
 Space.com Article
- Narrett, I. S., Rackham, B. V., de Wit, J. (2024) Axisymmetric High Spot Coverage on Exoplanet Host HD 189733 A. The Astronomical Journal.
- Strabel, B. P., Regoli, L. H., Moldwin, M. B., Ojeda, L. V., Shi, Y., Thomas, J. D., Narrett,
 I. S., et al. (2022). Quad-Mag board for CubeSat applications. Geoscientific Instrumentation, Methods and Data Systems.

Submitted/Preprint:

- Narrett, I. S., Oran, R., Chen, Y., Miljkovic, K., Toth, G., Johnson, C. L., Weiss, B. P., Impact plasma amplification of the ancient Mercury magnetic field. *JGR Planets*.
- Narrett, I. S., Weiss, B. P., Steele, S. C., Biersteker, J. B., Mercury Crustal Magnetization Requires a Stronger Ancient Dynamo. Science Advances.

In Prep:

Schneck, U. G., Biersteker, J. B., Narrett, I. S., Jia, X., Weiss, B. P., Confirmation of an ocean on Callisto using Bayesian reanalysis of Galileo induction measurements.

Invited Talks

Lunar and Hermean Impact Plasmas, UC Berkeley Planetary Science Seminar Series (2025) Lunar Impact-Plasma Dynamo Amplification and Future Tests, AGU Winter Conference (2025) The Uranian Magnetosphere, Denmark Technical University (2024)

Conference Presentations (*Talk Given)

- Weiss, B. P., Chaffee, T. M., Gattacceca, J., Tikoo, S. M., McDonald, C., Hodges, K. V.,
 Lepaulard, C., Miljković, K., Narrett, I. S., Evidence for a long-lived lunar dynamo. 7th
 Beijing Earth and Planetary Interior Symposium (2025)
- *Narrett, I. S. et al., Mercury's Ancient Crustal Magnetization: A Stronger Dynamo can be Confirmed by Future BepiColombo Measurements. EPSC-DPS Joint Meeting (2025)
- Weiss, B. P., Merayo, J. M. G., Jørgensen, J. L., *Narrett, I. S., Heritage Magnetometers for the Uranus Orbiter and Probe from the Technical University of Denmark. 6th International Workshop on Instrumentation for Planetary Missions (2025)
- *Narrett, I. S. et al., Does Mercury's Ancient Crustal Magnetization Require a Stronger Ancient Dynamo? Lunar and Planetary Science Conference (2025)
- Narrett, I. S. et al., HST and TESS point to a highly spotted photosphere for HD189733A.
 TESS Science Conference III (2024)
- *Narrett, I. S. et al., Lunar Crustal Magnetization from Impact-Generated Plasma Amplification of the Lunar Dynamo. Lunar and Planetary Science Conference and AGU Fall Meeting (2024)
- Narrett, I. S. et al., Testing Whether a Dynamo Magnetic Field Amplified by Impact Plasmas Can Explain the Magnetization of the Moon. Lunar and Planetary Science Conference and ASTRONUM (2023)